

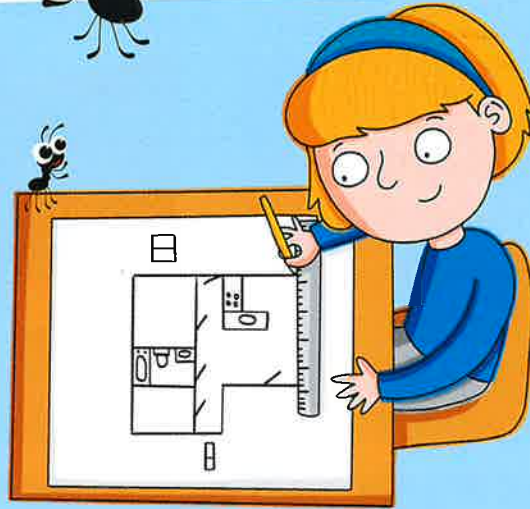
# You be the architect



Using and applying  
mathematics in  
real-world contexts

## Challenge

Plan your ideal house.  
Draw a floor plan as  
accurately as possible.



### You will need:

- squared paper
- ruler
- furniture catalogues

## Think about ...

For the 'Challenge',  
think about:

- what rooms you want to include
- the number of floors
- the area of each room.



For the 'Challenge'  
and the 'What If?',  
think about:

- the size of each room
- which rooms go next to each other
- where the windows and doors are going.

For the 'What If?', there must be enough space around the furniture for people to move about.

## What if?

As cities become increasingly overcrowded and the cost of land more expensive, architects are designing smaller and smaller homes.

Design a flat that has a total area of  $30\text{m}^2$ .

Include the measurements of each room and all the furniture.

Your flat must include:

- a bedroom for two people
- a cooking area
- a bathroom
- a living area.

When you've  
finished, turn  
to page 80.

